US ERA ARCHIVE DOCUMENT

Validation Sheet

Formulation: Assumed to be 100% a.i. 7

Chemical Name: San 326 I

Validator: Ray Matheny

Date: 3/14/79

Test Type: Avian Subacute Dietary LC50

Test I.D. #: Project No. 131-106

Citation: Fink, R. & J. Beavers. 1978. Eight Day LC50 - Bobwhite

Quail - San 326 - Final Report. Submitted to Sandoz, Inc., Wildlife International. (pg. 0052 within Accession No.

097840)

Validation Category: Core

Result: Species Test LC50 Confidence Limits

Bobwhite Quail 138 ppm* (106 - 180 ppm)

Using the probit method, the LC50 is verified at 138 ppm (103 - 185).

Validation Category Rationale: Satisfies core data requirements.

Category Repariability/Rationale: NA

Abstract: Six groups of bobwhites were dosed at 31.6, 56.2, 100, 178, 316 and 562 ppm. Mortalities occurring at these levels were 0, 1, 3, 5, 10 & 10, respectively. Five males & 5 females were tested in each group. At the two lower levels, toxic symptoms were transient lethargy, wing droop & toe picking. At the higher levels, other symptoms included nostral picking, depression, reduced reaction to external stimuli, lower limb weakness lethargy. A marked dose related reduction in food consumption was recorded at the two highest levels.

1200

on many

9943 data 10,10,5,3,1,0

79/03/12. 13.59.02. BASIC PROGRAM AZSLOSO San 326 I 3/12/79
Bobwhite quail
LC50

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ONC.	NUMBER	NUMBER	PERCENT	BINOMIAL
	EXPOSED	GEAD	DEAD	PROB. (PERCENT)
562	10	1.0	100	9.76563E-2
316	1 C	10	100	9.76563E-2 ;
178	10	5	50	62.3047
100	10	3	30.	17.1875
56.2	10	1	10.	1.07422
31.6	1.0	i)	Û	9,76563E−2 °

THE BINOMIAL TEST SHOWS THAT 56.2 AND 316 CAN BE USED AS STATISTICALLY SOUND CONSERVATIVE 95 PERCENT CONFIDENCE LIMITS SINCE THE ACTUAL CONFIDENCE LEVEL ASSOCIATED WITH THESE LIMITS IS 98.8281 PERCENT.

AN APPROXIMATE LC50 FOR THIS SET OF DATA IS 178,

SLOPE = 4.07848 95 PERCENT CONFIDENCE LIMITS = 2.33212 AND 5.82483

LC50 = 138,579
95 PERCENT CONFIDENCE LIMITS = 103,566 AND 185,485

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